

KPOL-HDPE HD K-I 3.0/950

High Density Polyethylene

KPOL Chem Co.

Message:

High Density Polyethylene Injection molding grade

Characteristics

The KPOL - HD K-I 3.0/950 ; Is a high-density polyethylene, developed for the injection molding with good tenacity and impact properties combined with a good stiffness.

They are tailored with narrow molecular weight distribution (MWD) result for good impact strength.

Applications

Crates, Pallets, Garbage bins, Industrial tubes, Fruit baskets, Caps and Closures and General purpose boxes.

The KPOL® resin meets the requirements of section 177.1520, paragraph C, from chapter 21 denominated "Olefin Polymers" from the Code of Federal Regulations of the FDA, to be utilized with direct food contact.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Stiffness		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Containers		
	Crates		
	Food Containers		
	Pallets		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.0	MPa	ASTM D638
Tensile Elongation (Break)	750	%	ASTM D638
Flexural Modulus - Tangent	1.30	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	128	°C	ASTM D1525
Melting Temperature	132	°C	DSC
Heat Deflection Temperature	76	°C	ASTM D648

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